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**EVALUATIONS OF ~~VIET~~
SURFACE-TO-SURFACE MISSILE
~~DEPLOYMENT~~**

6TH REVISION

**A Report of the Deployment Working Group
of the
Guided Missiles and Astronautics Intelligence Committee**

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The Guided Missiles and Astronautics Intelligence Committee (GMAIC) wishes to express its appreciation to the National Photographic Interpretation Center for its assistance in the editing, illustration, and publication of this report.

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CONTENTS

	Page
INTRODUCTION	1
Table 1. Summary of Estimated Status of Identified ICBM and MRBM/IRBM Launchers at De- ployed Complexes	5
Table 2. Summary Evaluation of Soviet ICBM De- ployment	6
Table 3. Summary Evaluation of Soviet MRBM/ IRBM Deployment.	9
Table 4. Alphabetical Listing of Locations Consider- ed in Detail by the DWG	15

ILLUSTRATIONS

	Page
Figure 1. Deployment of Soviet ICBM Com- plexes	Facing 1
Figure 2. Typical Configurations of ICBM Launch Sites	2
Figure 3. Deployment of Soviet MRBM/IRBM Complexes	3
Figure 4. Typical Configurations of MRBM/IRBM Launch Sites	4

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PREFACE

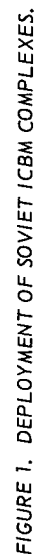
This report, formerly published bimonthly by the GMAIC Deployment Working Group (DWG) in mimeograph form, has been expanded to include additional data. It will continue to be published bimonthly in this new format.

Dissemination of the report was previously limited to holders of the DWG report, Soviet Surface-to-Surface Missile Deployment. Because the information contained herein is both supplemental and self-sustaining, distribution will no longer be limited to holders of the above report.

The current format provides a comprehensive, ready reference listing of all ICBM, IRBM, and MRBM deployment locations, types of site configurations, photographic references, estimated construction and operational status, and other evaluations of the DWG. Additional data may be added to future revisions.

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INTRODUCTION

This report is the sixth revision of Evaluations of Soviet Surface-to-Surface Missile Deployment prepared by the Deployment Working Group of the Guided Missiles and Astronautics Intelligence Committee. The fifth revision, dated 1 February 1963 and disseminated under control number [REDACTED] should be destroyed in accordance with the existing instructions for handling [REDACTED] material.

There has been no evidence from any source to revise the basic information included in the 1 February revision. However, a reanalysis of all available photography of each ICBM site was made in an effort to determine more precisely the construction timing and pace of the Soviet deployment program. This effort resulted in minor changes in our estimates of operational status.

A total of 136 ICBM launchers has been identified to date at deployed complexes. Of this total, about 100 are believed to be operational. See Figure 1 for locations of deployed ICBM complexes. The four basic ICBM site configurations are characterized as follows:

TYPE I - A first-generation soft site with a rail-served pad similar to Launch Complex A or B, Tyura Tam. To date, this type has been observed only at Plesetsk.

TYPE II - A second-generation soft site with two road-served pads similar to Launch Complex C, Tyura Tam. This type was first observed at Yur'ya and subsequently at 11 other

locations. There are two basic modifications of this type.*

TYPE III - A hardened site observed at Launch Complex D, Tyura Tam, and at eight confirmed ICBM complexes. Each site consists of two launchers (probably silo type) and a control bunker. The degree of hardening cannot be determined from available evidence. The excavations during construction are about 200 feet wide and 500 feet long. An accurate measurement of depth has not been determined from photography.

TYPE IV - A soft configuration consisting of two road-served launch pads. The configuration was first observed at Tyumen' and subsequently at three other confirmed ICBM complexes. It differs from TYPE II sites as follows: (1) the pad separation is between 800 and 870 feet instead of 980 feet, (2) the ready building is 820 feet from the pad and is smaller (115 by 130 feet), and (3) there is a "plus sign" pattern at the rear or side of the launch area at most of the sites under construction, the purpose of which has not been determined.

*The USAF and DIA members of GMAIC believe that there are three configurations of this type. They assert that the Type IV site is but another modification of the Type II site. The NSA member believes that all soft, road-served ICBM sites should be grouped as Type II until the missile system involved has been determined.

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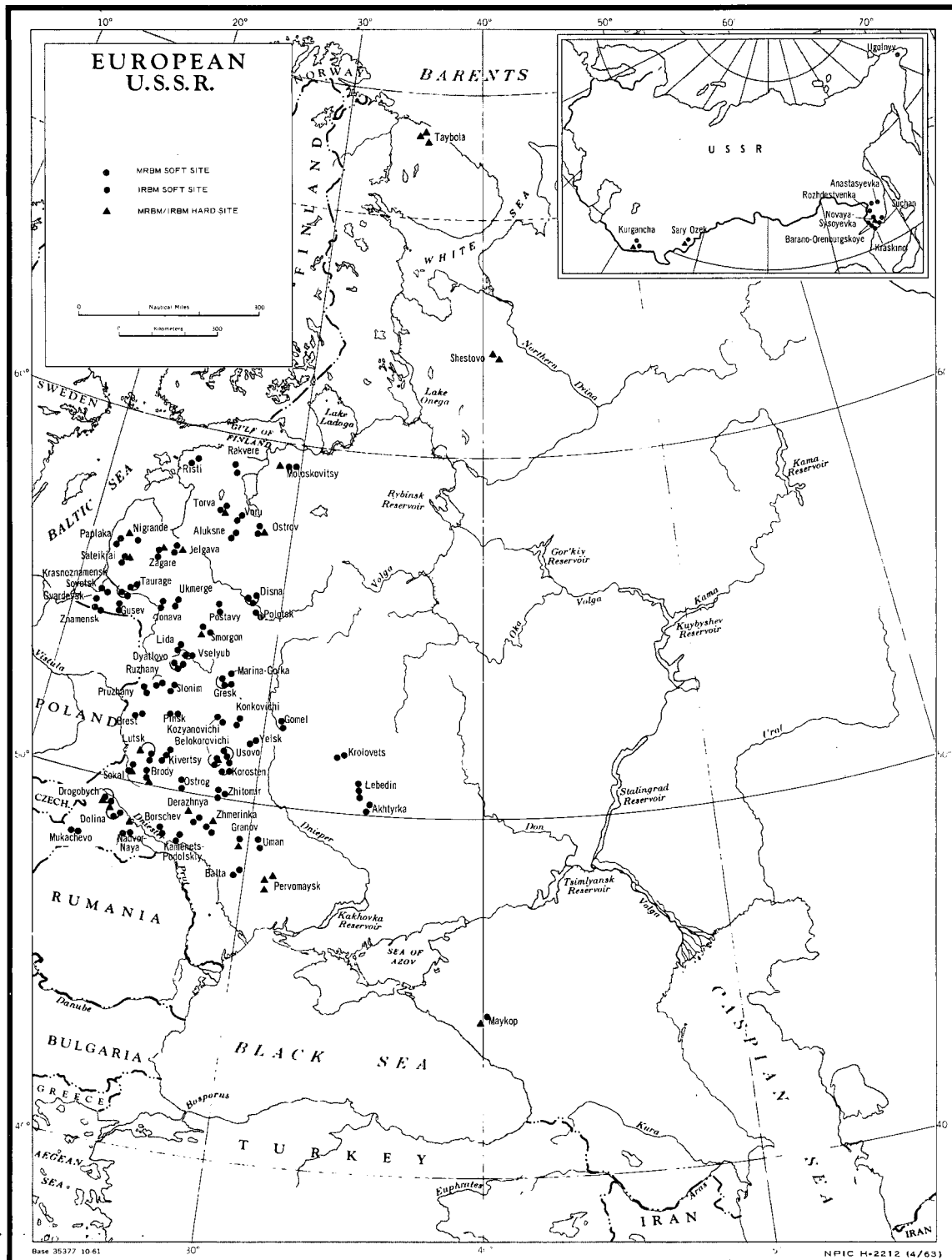


FIGURE 3. DEPLOYMENT OF SOVIET MRBM/IRBM COMPLEXES.

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Figure 2 presents the four basic ICBM site configurations listed above.

A total of 128 soft MRBM sites (512 launch pads) and 11 soft IRBM sites (44 launch pads) have been identified to date. These totals include one probable site at Smorgon and one possible site at Lebedin. Thirty hardened MRBM/IRBM sites (60 launchers) have been identified to date, including two possible sites at Shestovo and one probable site at Sary Ozek. For the locations of deployed MRBM/IRBM complexes, see Figure 3. The four basic MRBM/IRBM site configurations are presented in Figure 4. Three soft MRBM sites (Kraskino, Rozhdestvenka and Ugolnyy) have characteristics of both the soft elongated-pad MRBM and IRBM sites. These sites have been designated as MRBM sites in this report as most of the characteristics favor the MRBM.

In this report, five complex names have been changed by the DWG to incorporate names carried by the Target Data Inventory (TDI). These changes are as follows:

Dunayevtsy is changed to KAMENETS-
PODOL'SKIY

Godykha is changed to ZHITOMIR

Petrikov is changed to KONKOVICHI

Ragnit is changed to KRASNOZNAMENSK

Skala-Podol'skaya is changed to BORSH-
CHEV

It should be noted that all suspect locations are subject to continuous review. When a suspect location has sufficient evidence to warrant an assessment of possible or higher, it will be included in Soviet Surface-to-Surface Missile Deployment [] dated 1 January 1962. When a location has been evaluated as negative by the DWG, all evidence including [] photography will continue to be reviewed for deception, new construction, and unrecognized configurations. The evaluations assigned are based on the latest data and are subject to change as new evidence is made available. Accordingly, this report will be revised bi-monthly to reflect additions or changes in evaluations.

Although some of the locations listed in Table 4 may have some functional relationship to the Soviet missile program, the assessments are limited to launching facilities. Only major differences in assessment are listed in footnotes.

TABLE 1. SUMMARY OF ESTIMATED STATUS OF IDENTIFIED ICBM AND MRBM/IRBM LAUNCHERS AT DEPLOYED COMPLEXES 1/

TYPE	NUMBER	OPERATIONAL	UNDER CONSTRUCTION	TYPE	NUMBER	OPERATIONAL	UNDER CONSTRUCTION
ICBM				MRBM/IRBM			
I	4	4	0	I	308	308	0
II	84	72	12	II	204	196	8
III	26	14	12	III	44	40	4
IV	22	12	10	IV	60	40	20
TOTAL	136	102	34	TOTAL	616	584	32

1/ See TABLES 2 and 3 for details.

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TABLE 2. SUMMARY EVALUATION OF SOVIET ICBM DEPLOYMENT

Location	BE Number	Coordinate	Type of Site	Number of Launchers		Site Negated		First Coverage		Last Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
DROVYANAYA																			
Site A		51-24N 113-00E	II B	2											63				Operational
Site B		51-23N 113-07E	III (Prob)		2										64				U/C
GLADKAYA																			
Site A		56-20N 92-19E	IV	2												63			U/C
Site B		56-25N 92-25E	IV	2												63			U/C
ITATKA																			
Site A		56-58N 85-33E	II B	2												62			Operational
Site B		57-01N 85-39E	II B	2											63				Operational
KOSTROMA																			
Site A		58-02N 41-21E	II B	2												62			Operational
Site B		58-02N 41-07E	II B	2												62			Operational
Site C		57-59N 41-09E	II B	2												62			Operational
Site D		58-05N 41-40E	II B	2													62		Operational
Site E		57-57N 41-13E	III		2										63		63		U/C
Site F		57-55N 41-09E	II B	2													63		U/C
KOZELSK																			
Site A		53-54N 35-44E	IV	2												63			Operational
Site B		53-48N 35-47E	IV	2												63			Operational
Site C		53-46N 35-41E	IV	2													63		Operational
Site D		53-52N 35-51E	IV	2													63		Operational
NOVOSIBIRSK																			
Site A		55-19N 83-10E	II B	2												63			Operational
Site B		55-19N 83-01E	III		2											63			Operational
Site C		55-23N 82-56E	III		2											64			U/C
Site D		55-21N 83-14E	II B	2													63		U/C
OMSK																			
Site A		55-09N 73-38E	III		2												63		U/C
Site B		55-11N 73-33E	III		2											64			U/C
PERM'																			
Site A		57-41N 56-13E	II B	2													62		Operational
Site B		57-42N 55-57E	II B	2													62		Operational
Site C		57-37N 56-07E	II B	2												63			Operational
PLESETSK																			
Site 1		62-55N 40-27E	I	2												60			Operational
Site 2		62-56N 40-32E	I	1												60			Operational
Site 3		62-57N 40-41E	I	1													60		Operational
Site A		62-58N 40-47E	II A	2													61		Operational
Site B		63-03N 40-58E	II B	2													62		Operational
Site C		63-01N 40-52E	III		2											63			Operational
Site D		62-53N 40-50E	IV	2													62		Operational
Site E		62-50N 40-35E	IV	2												63			Operational
SHADRINSK																			
Site A		56-09N 63-52E	III		2											63			Operational
Site B		56-10N 64-03E	III		2												63		U/C

TABLE 2. (Continued)

Location	BE Number	Coordinate	Type of Site	Number of Launchers		Site Negated		First Coverage		Last Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
SVOBODNY																			
Site A		51-55N 128-10E	II B	2													62		Operational
Site B		51-49N 128-19E	II B	2													62		Operational
Site C		51-53N 128-23E	II B	2											63				Operational
Site D		52-00N 128-06E	II B	2													63		Operational U/C
TEYKOVO																			
Site A		56-55N 40-27E	II B	2													62		Operational
Site B		56-56N 40-33E	II B	2													62		Operational
Site C		56-55N 40-17E	II B	2											63				Operational
Site D		56-58N 40-40E	II B	2													63		Operational U/C
TYUMEN'																			
Site A		56-52N 65-35E	IV	2													63		Operational
Site B		56-48N 65-38E	IV	2													63		Operational U/C
Site C		56-51N 65-28E	IV	2													63		Operational U/C
VERKHNYAYA SALD																			
Site A		58-09N 60-16E	II B	2													62		Operational
Site B		58-06N 60-22E	II A	2														61	Operational
Site C		58-10N 60-28E	II A	2														61	Operational
Site D		58-12N 60-34E	II B	2													62		Operational
Site E		58-14N 60-54E	II B	2														62	Operational
Site F		58-14N 60-41E	III	2	2										63				Operational
Site G		58-13N 60-49E	III	2	2												63		Operational
YEDROVO																			
Site A		57-48N 33-36E	II B	2													62		Operational
Site B		57-48N 33-14E	II B	2														62	Operational
Site C		57-49N 33-08E	II B	2											63				Operational
Site D		57-48N 33-29E	II B	2													63		Operational
YOSHKAR-OLA																			
Site A		56-35N 48-10E	II B	2													62		Operational
Site B		56-35N 48-18E	II B	2													62		Operational
Site C		56-32N 48-25E	II B	2											63				Operational
Site D		56-32N 48-19E	II B	2													63		Operational U/C
YUR'YA																			
Site A		59-09N 49-33E	II A	2														61	Operational
Site B		59-08N 49-41E	II A	2														61	Operational
Site C		59-12N 49-28E	II B	2													62		Operational
Site D		59-15N 49-24E	II B	2													62		Operational
Site E		59-22N 49-17E	III	2	2													62	Operational
Site F		59-21N 49-13E	II B	2											63				Operational
Site G		59-04N 49-52E	III	2	2										63				Operational
			II B																
Site H		59-11N 49-46E	(Prob)	2													63		U/C
SUB TOTALS				69	110	26													

TABLE 2. (Continued)

Location	BE Number	Coordinate	Type of Site	Number of Launchers		Site Negated		First Coverage		Last Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
TYURA TAM		45-55N 63-20E	I	1															Operational
Complex A		45-55N 63-20E	I	1															Operational
Complex A2			I																
Complex B		45-59N 63-33E	Prototype	1															Operational
Complex C		45-48N 63-39E	II																Operational
Complex C3		45-48N 63-39E	II	1															Operational
Complex D1		45-59N 63-57E	III																Operational
Complex D2		45-59N 63-57E	Prototype		2														Operational
Complex E		45-58N 63-12E	Undet	2 (Prob)															Operational
Complex F		46-02N 63-06E	Undet		Undet	Undet													U/C
Complex G		46-03N 62-56E	Undet		Undet	Undet													U/C
TOTALS				76	118	30													

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TABLE 3. SUMMARY EVALUATION OF SOVIET MRBM/IRBM DEPLOYMENT

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
AKHTYRKA Launch Complex						
Launch Site No 1 (AKHTYRKA 1)		50-15-45N 34-50-15E	II	4		Complete
Launch Site No 2 (AKHTYRKA 2)		50-22-00N 34-57-15E	II	4		Complete
ALUKSNE Launch Complex						
Launch Site No 1 (LEJASCIEMS)		57-21-15N 26-44-45E	II	4		Complete
Launch Site No 2 (RUSKI)		57-25-15N 26-50-00E	II	4		Complete
ANASTAS'YEVKA Launch Complex						
Launch Site No 1 (ANASTASYEVKA 1)		48-35-00N 135-38-45E	II	4		Complete
Launch Site No 2 (ANASTASYEVKA 2)		48-36-45N 135-41-30E	II	4		Complete
BALTA Launch Complex						
Launch Site No 1 (BALTA 1)		48-01-45N 29-33-30E	II	4		Complete
Launch Site No 2 (BALTA 2)		48-07-45N 29-34-30E	II	4		Complete
BARANO-ORENBURGSKOYE Complex						
Launch Site No 1 (SOFIYE ALEKSEYEVSKOYE)		44-15-30N 131-23-00E	I	4		Complete
Launch Site No 2 (BARANO-ORENBURGSKOYE)		44-19-45N 131-30-15E	I	4		Complete
BELOKOROVICHI Launch Complex						
Launch Site No 1 (OLEVSK 1)		51-08-45N 28-03-30E	I	4		Complete
Launch Site No 2 (OLEVSK 2)		51-10-30N 28-00-15E	I	4		Complete
Hard Launch Site (RUDNYA ZLOTINSKAYA)		51-04-30N 28-07-00E	IV	2		Complete
BORSHCHEV Launch Complex						
Launch Site No 1 (SKALA PODOL'SKAYA 1)		48-51-00N 26-08-30E	I	4		Complete
Launch Site No 2 (SKALA PODOL'SKAYA 2)		48-53-15N 26-03-30E	I	4		Complete
BREST Launch Complex						
Launch Site No 1 (BREST 1)		51-49-00N 24-01-00E	II	4		Complete
Launch Site No 2 (BREST 2)		51-51-45N 24-01-45E	II	4		Complete
BRODY Launch Complex						
Launch Site No 1 (BRODY 2)		50-13-15N 25-05-00E	I	4		Complete
Launch Site No 2 (BERESTECKO)		50-20-15N 25-05-30E	I	4		Complete
Hard Launch Site (BRODY 1)		50-06-00N 25-12-00E	IV	2		Complete
DERAZHNYA Launch Complex						
Launch Site No 1 (DERAZHNYA 1)		49-21-00N 27-26-30E	II	4		Complete
Launch Site No 2 (DERAZHNYA 2)		49-26-30N 27-29-00E	II	4		Complete
Hard Launch Site (KIIMELNITSKIY)		49-24-45N 27-08-45E	IV	2		Complete
DISNA Launch Complex						
Launch Site No 1 (DISNA)		55-35-15N 28-15-45E	I	4		Complete
Launch Site No 2 (ZELKI)		55-36-00N 28-24-30E	I	4		Complete
Launch Site No 3 (BORKOVICHI)		55-42-00N 28-27-15E	II	4		Complete
DOLINA Launch Complex						
Launch Site No 1 (DOLINA 1)		49-04-00N 24-03-30E	I	4		Complete
Launch Site No 2 (DOLINA 2)		49-06-15N 24-08-30E	I	4		Complete
Hard Launch Site (BOLEKHOV)		49-06-45N 23-51-15E	IV	2		Complete

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
DROGOBYCH Launch Complex						
Launch Site No 1 (MEDENITSA)		49-22-00N 23-45-30E	I	4		Complete
Launch Site No 2 (DROGOBYCH)		49-24-45N 23-34-45E	I	4		Complete
Hard Launch Site (STRYY)		49-16-30N 23-43-00E	IV	2		Complete
DYATLOVO Launch Complex						
Launch Site No 1 (DYATLOVO)		53-33-00N 25-16-30E	I	4		Complete
Launch Site No 2 (ZBLYANY)		53-35-30N 25-17-45E	I	4		Complete
Launch Site No 3 (BEREZOVKA)		53-36-15N 25-26-30E	II	4		Complete
GOMEL' Launch Complex						
Launch Site No 1 (BORKHOV 1)		52-16-45N 30-43-00E	II	4		Complete
Launch Site No 2 (BORKHOV 2)		52-24-45N 30-38-30E	II	4		Complete
GRANOV Launch Complex						
Launch Site No 1 (GRANOV 1)		48-56-15N 29-30-30E	III	4		Complete
Hard Launch Site (GRANOV 2)		48-49-30N 29-29-15E	IV	2		Complete
GRESK Launch Complex						
Launch Site No 1 (GRESK 1)		53-14-50N 27-42-15E	I	4		Complete
Launch Site No 2 (GRESK 2)		53-17-00N 27-41-15E	I	4		Complete
Launch Site No 3 (URECH'YE)		53-11-30N 27-58-30E	II	4		Complete
GUSEV Launch Complex						
Launch Site No 1 (GUSEV 1)		54-41-30N 22-05-15E	I	4		Complete
Launch Site No 2 (GUSEV 2)		54-44-15N 22-04-15E	I	4		Complete
GVARDEYSK Launch Complex						
Launch Site 1 (GVARDEYSK 2)		54-45-15N 21-09-15E	I	4		Complete
JELGAVA Launch Complex						
Launch Site No 1 (IECAVA 1)		56-35-30N 24-03-45E	II	4		Complete
Launch Site No 2 (IECAVA 2)		56-39-45N 24-08-00E	II	4		Complete
Hard Launch Site (IECAVA 3)		56-32-15N 24-20-30E	IV	2		Complete
JONAVA Launch Complex						
Launch Site No 1 (KARMELAVA)		54-57-15N 24-06-00E	II	4		Complete
Launch Site No 2 (JONAVA)		55-01-00N 24-14-15E	II	4		Complete
KAMENETS PODOL'SKIY Launch Complex						
Launch Site No 1 (KAMENETS PODOL'SKIY)		48-51-15N 26-42-30E	II	4		Complete
Launch Site No 2 (DUNAYEVTSY)		48-55-15N 26-59-15E	II	4		Complete
KIVERTSY Launch Complex						
Launch Site No 1 (KIVERTSY 1)		50-52-45N 25-30-45E	I	4		Complete
Launch Site No 2 (KIVERTSY 2)		50-57-00N 25-36-15E	I	4		Complete
Launch Site No 3 (KIVERTSY 3)		50-58-30N 25-39-15E	II	4		Complete
KONKOVICH Launch Complex						
Launch Site No 1 (PETRIKOV)		52-10-30N 28-24-30E	I	4		Complete
Launch Site No 2 (KONKOVICH)		52-15-30N 28-37-45E	I	4		Complete
KOROSTEN' Launch Complex						
Launch Site No 1 (KOROSTEN 1)		50-51-45N 28-18-45E	II	4		Complete
Launch Site No 2 (KOROSTEN 2)		50-52-30N 28-30-30E	II	4		Complete

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TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
KOZHANOVICHI Launch Complex Launch Site No 1 (KOZHANOVICHI 1) Launch Site No 2 (KOZHANOVICHI 2)		52-10-30N 27-51-30E 52-11-45N 27-48-30E	I I	4 4		Complete Complete
KRASKINO Launch Complex Launch Site No 1 (KRASKINO)		42-44-00N 130-40-45E	II	4		Complete
KRASNOZNAMENSK Launch Complex Launch Site No 1 (VIESVILLE) Launch Site No 2 (RAGNIT)		55-01-30N 22-23-00E 55-01-30N 22-11-30E	I I	4 4		Complete Complete
KROLOVETS Launch Complex Launch Site No 1 (KROLOVETS 1) Launch Site No 2 (KROLOVETS 2)		51-36-45N 33-28-45E 51-40-45N 33-29-30E	III III	4 4		Complete Complete
KURGANCHA Launch Complex Launch Site No 1 (KURGANCHA 1) Launch Site No 2 (KURGANCHA 2) Hard Launch Site (TYM)		39-37-15N 65-54-00E 39-37-30N 65-57-15E 39-35-15N 65-42-15E	I I IV	4 4 2		Complete Complete Complete
LEBEDIN Launch Complex Launch Site No 1 (LEBEDIN 1) Launch Site No 2 (LEBEDIN 2) Launch Site No 3 (POSSIBLE)		50-33-00N 34-26-00E 50-35-45N 34-24-45E 50-38-00N 34-27-30E	III III III	4 4 4		Complete Complete Undetermined
LIDA Launch Complex Launch Site No 1 (LIDA 1) Launch Site No 2 (LIDA 2)		53-47-00N 25-21-30E 53-57-00N 23-28-00E	I I	4 4		Complete Complete
LUTSK Launch Complex Launch Site No 1 (LUTSK 1) Launch Site No 2 (LUTSK 2) Hard Launch Site (VLADIMIR-VOLYNSKIY)		50-46-45N 25-04-15E 50-50-15N 25-03-00E 50-48-30N 24-42-30E	I I IV	4 4 2		Complete Complete Complete
MARINA GORKA Launch Complex Launch Site No 1 (MARINA GORKA)		53-26-30N 27-45-45E	II	4		Complete
MAYKOP Launch Complex Launch Site No 1 (KURDZHIPS KAYA) Hard Launch Site (SHIRVANSKAYA)		44-31-45N 40-00-45E 44-25-30N 39-54-00E	II IV	4 2		Complete Complete
MOLOSKOVITSY Launch Complex Launch Site No 1 (MOLOSKOVITSY 1) Launch Site No 2 (MOLOSKOVITSY 2) Hard Launch Site (GURELEVO)		59-28-45N 29-06-00E 59-29-30N 29-12-30E 59-25-30N 28-52-30E	II II IV	4 4 2		Complete Complete Complete
MUKACHEVO Launch Complex Launch Site No 1 (MUKACHEVO 1) Launch Site No 2 (MUKACHEVO 2)		48-19-00N 22-31-00E 48-19-30N 22-37-45E	I I	4 4		Complete Complete

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
NADVORNAYA Launch Complex						
Launch Site No 1 (PARYSHCHE)		48-38-00N 24-42-00E	I	4		Complete
Launch Site No 2 (NOVAVES)		48-39-30N 24-48-15E	I	4		Complete
Hard Launch Site (OTYNYA)		48-47-45N 24-50-15E	IV	2		Complete
NIGRANDE Launch Complex						
Launch Site No 1 (NIGRANDE)		56-31-00N 22-02-15E	III	4		Complete
Hard Launch Site (SKRUNDA)		56-35-45N 21-49-15E	IV	2		Mid
NOVOSYSOYEVKA Launch Complex						
Launch Site No 1 (NOVOSYSOYEVKA)		44-11-30N 133-26-00E	III	4		Complete
Hard Launch Site		44-07-45N 133-27-30E	IV	2		Complete
OSTROG Launch Complex						
Launch Site No 1 (OSTROG 1)		50-14-30N 26-44-00E	I	4		Complete
Launch Site No 2 (OSTROG 2)		50-17-15N 26-41-30E	I	4		Complete
OSTROV Launch Complex						
Launch Site No 1 (ASANOVSHCHINA)		57-32-45N 28-12-00E	I	4		Complete
Launch Site No 2 (SHEVELEVO)		57-37-30N 28-12-45E	I	4		Complete
Hard Launch Site (REDKINO)		57-24-30N 28-26-45E	IV	2		Complete
PAPLAKA Launch Complex						
Launch Site No 1 (PAPLAKA 1)		56-24-00N 21-15-30E	I	4		Complete
Launch Site No 2 (PAPLAKA 2)		56-25-30N 21-15-30E	I	4		Complete
PERVOMAYSK Launch Complex						
Hard Launch Site No 1 (KAMENNY MOST')		47-58-30N 30-53-00E	IV	2		Complete
Hard Launch Site No 2 (SEMENOVKA 1)		47-58-45N 30-59-30E	IV	2		Late
Hard Launch Site No 3 (SEMENOVKA 2)		47-53-45N 30-57-30E	IV	2		Mid
PINSK Launch Complex						
Launch Site No 1 (IVANOVO)		52-10-45N 25-41-00E	I	4		Complete
Launch Site No 2 (MOTOL)		52-12-45N 25-44-45E	I	4		Complete
POLOTSK Launch Complex						
Launch Site No 1 (POLOTSK 1)		55-22-45N 28-44-00E	II	4		Complete
Launch Site No 2 (POLOTSK 2)		55-24-15N 28-33-30E	II	4		Complete
POSTAVY Launch Complex						
Launch Site No 1 (POSTAVY)		55-09-45N 26-54-15E	II	4		Complete
Launch Site No 2 (KOZYANY)		55-20-30N 26-51-30E	II	4		Complete
PRUZHANY Launch Complex						
Launch Site No 1 (PRUZHANY 1)		52-30-30N 24-08-15E	II	4		Complete
Launch Site No 2 (PRUZHANY 2)		52-33-00N 24-07-00E	II	4		Complete
RAKVERE Launch Complex						
Launch Site No 1 (SIMUNA)		59-08-30N 26-26-30E	II	4		Complete
Launch Site No 2 (VAIKE MAARJA)		59-11-30N 26-20-45E	II	4		Complete
RISTI Launch Complex						
Launch Site No 1 (RISTI 1)		59-04-00N 24-03-15E	I	4		Complete
Launch Site No 2 (RISTI 2)		59-06-30N 24-06-30E	I	4		Complete

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
ROZHDESTVENKA Launch Complex						
Launch Site No 1 (ROZHDESTVENKA)		45-47-15N 133-43-15E	II	4		Complete
RUZHANY Launch Complex						
Launch Site No 1 (KRUPA 1)		52-48-15N 24-42-00E	II	4		Complete
Launch Site No 2 (KRUPA 2)		52-49-30N 24-45-30E	II	4		Complete
SARY OZEK Launch Complex						
Launch Site No 1 (KARA BABAU 1)		44-32-00N 77-46-45E	III	4		Complete
Hard Launch Site (PROBABLE)		44-31-00N 77-58-45E	IV	2		Complete
SATEIKIAI Launch Complex						
Launch Site No 1 (SALANTAI 1)		55-59-45N 21-38-00E	I	4		Complete
Launch Site No 2 (SALANTAI 2)		56-02-15N 21-41-30E	I	4		Complete
Hard Launch Site (ZEMAICIU KALVARIJA)		56-01-30N 21-53-30E	IV	2		Complete
SHESTOVO Launch Complex						
Launch Site No 1 (SHESTOVO 1) (POSSIBLE)		62-57-15N 40-13-00E	IV	2		Undetermined
Launch Site No 2 (SHESTOVO 2) (POSSIBLE)		62-58-00N 40-11-15E	IV	2		Undetermined
SLONIM Launch Complex						
Launch Site No 1 (BYTEN 1)		52-52-30N 25-21-00E	I	4		Complete
Launch Site No 2 (BYTEN 2)		52-55-30N 25-21-30E	I	4		Complete
SMORGON Launch Complex						
Launch Site No 1 (SMORGON 1)		54-31-45N 26-17-30E	III	4		Complete
Launch Site No 2 (SMORGON 3) (PROBABLE)		54-36-15N 26-23-15E	III	4		Complete
Hard Launch Site (SMORGON 2)		54-26-15N 26-18-15E	IV	2		Complete
SOKAL' Launch Complex						
Launch Site No 1 (SOKAL' 1)		50-23-00N 24-18-30E	I	4		Complete
Launch Site No 2 (SOKAL' 2)		50-27-30N 24-20-45E	I	4		Complete
Hard Launch Site (SOKAL' 3)		50-20-15N 24-26-00E	IV	2		Complete
SOVETSK Launch Complex						
Launch Site No 1 (SLAVSK 1)		54-59-15N 21-37-15E	I	4		Complete
Launch Site No 2 (SLAVSK 2)		55-00-00N 21-29-00E	I	4		Complete
SUCHAN Launch Complex						
Launch Site No 1 (NOVITSKOYE)		43-01-45N 133-17-15E	I	4		Complete
Launch Site No 2 (SEVERNYY SUCHAN)		43-10-00N 133-20-00E	I	4		Complete
TAURAGE Launch Complex						
Launch Site No 1 (TAURAGE 3)		55-05-15N 22-19-30E	I	4		Complete
Launch Site No 2 (TAURAGE 1)		55-10-15N 22-20-45E	I	4		Complete
TAYBOLA Launch Complex						
Hard Launch Site No 1 (TAYBOLA 1)		68-28-15N 33-15-15E	IV	2		Complete
Hard Launch Site No 2 (TAYBOLA 2)		68-30-00N 33-23-00E	IV	2		Complete
Hard Launch Site No 3 (TAYBOLA 3)		68-25-45N 33-29-30E	IV	2		Mid
TORVA Launch Complex						
Launch Site No 1 (TORVA 1)		57-56-30N 26-04-30E	I	4		Complete
Launch Site No 2 (TORVA 2)		57-59-15N 26-05-15E	I	4		Complete
Hard Launch Site (TSIRGULIINA)		57-49-45N 26-12-15E	IV	2		Complete

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
UGOLNYY KOPI Launch Complex Launch Site No 1 (UGOLNYY)		64-46-15N 177-58-00E	II	4		Complete
UKMERGE Launch Complex Launch Site No 1 (VEPRIAI)		55-08-00N 24-38-45E	I	4		Complete
Launch Site No 2 (UKMERGE)		55-11-15N 24-42-30E	I	4		Complete
UMAN Launch Complex Launch Site No 1 (MOLODETSKOYE)		48-53-45N 30-27-45E	I	4		Complete
Launch Site No 2 (MANKOVKA)		48-57-45N 30-24-00E	I	4		Complete
USOVO Launch Complex Launch Site No 1 (OVRUCH 1)		51-17-45N 28-16-00E	I	4		Complete
Launch Site No 2 (OVRUCH 2)		51-18-45N 28-10-30E	I	4		Complete
Launch Site No 3 (LIPNIKI)		51-12-00N 28-26-30E	II	4		Complete
VORU Launch Complex Launch Site No 1 (VORU 1)		57-46-00N 26-47-15E	II	4		Complete
Launch Site No 2 (VORU 2)		57-49-15N 26-50-30E	II	4		Complete
VSELYUB Launch Complex Launch Site No 1 (VSELYUB 1)		53-46-15N 25-43-00E	I	4		Complete
Launch Site No 2 (VSELYUB 2)		53-48-00N 25-46-45E	I	4		Complete
YEL'SK Launch Complex Launch Site No 1 (YEL'SK 1)		51-42-00N 29-12-30E	I	4		Complete
Launch Site No 2 (YEL'SK 2)		51-47-00N 29-18-00E	I	4		Complete
ZAGARE Launch Complex Launch Site No 1 (ZAGARE 1)		56-23-15N 23-19-30E	I	4		Complete
Launch Site No 2 (ZAGARE 2)		56-29-00N 23-21-30E	I	4		Complete
Hard Launch Site (LIELELEJA)		56-24-00N 23-36-45E	IV	2		Complete
ZHITOMIR Launch Complex Launch Site No 1 (ZHITOMIR 1)		50-04-45N 28-16-15E	II	4		Late
Launch Site No 2 (ZHITOMIR 2)		50-10-15N 28-16-00E	II	4		Complete
Launch Site No 3 (BERDICHEV)		50-05-45N 28-22-45E	II	4		Late
ZHMERINKA Launch Complex Launch Site No 1 (GNIVAN)		49-09-15N 28-12-15E	II	4		Complete
Launch Site No 2 (ZHMERINKA)		49-10-30N 28-04-45E	II	4		Complete
Hard Launch Site (VINNITSA)		49-17-30N 28-20-15E	IV	2		Complete
ZNAMENSK Launch Complex Launch Site No 1 (ZNAMENSK 1)		54-33-00N 21-11-15E	I	4		Complete
Launch Site No 2 (ZNAMENSK 2)		54-35-30N 21-08-45E	I	4		Complete

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TABLE 4. ALPHABETICAL LISTING OF LOCATIONS CONSIDERED IN DETAIL BY THE DWG

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
AKHTYRKA	Negative	Confirmed	DROGOBYCH	Negative	Confirmed
AKMOLINSK	Negative	Negative	DROVYANAYA	Confirmed	Negative
ALMA ATA	Negative	Negative	DUBROVO	Negative	Undetermined
ALSUNGA (See KULDIGA AREA)			DUNAYEVTSY (See KAM-ENETS PODOL'SKIY)		
ALUKSNE	Negative	Confirmed	DUNDAGA (See KULDIGA Area)		
ALYKEL	Negative	Negative	DURBE (See PAPLAKA)		
ANADYR (See UGOL'NYYE KOPI)			DYATLOVO	Negative	Confirmed
ANASTAS'YEVKA	Negative	Confirmed	EMBA ^{4/}	Negative	Negative
ARAL'SK	Negative	Negative	ENGEL'S (See SARATOV/ENGEL'S AREA)		
ARKHANGEL'SK	Negative	Negative	FEODOSIYA ^{5/}	Negative	Negative
ASANOVSHCHINA (See OSTROV)			FRUNZE	Negative	Negative
AY PETRI	Negative	Negative	GLADKAYA	Confirmed	Negative
BALAKLAVA ^{1/}	Negative	Negative	GLAZOV	Negative	Negative
BALTA	Negative	Confirmed	GNIVAN (See ZHMERINKA)		
BARANO-ORENBURG-SKOYE	Negative	Confirmed	GODYKHA (See ZHITOMIR)		
BAUTINO ^{2/}	Negative	Negative	GOMEL	Negative	Confirmed
BELAYA TSEKOV'	Negative	Negative	GORODOK (L'VOV Area)	Negative	Undetermined
BELOKOROVICH	Negative	Confirmed	GRANOV	Negative	Confirmed
BERDICHEV (See ZHITOMIR)			GRESK	Negative	Confirmed
BEREGOVO (See MUKACHEVO)			GROBINA (See PAPLAKA)		
BERESTECHKO (See BRODY)			GRODEKOVO (See BARANO-ORENBURGSKOYE)		
BEREZOVKA (SARATOV/ENGEL'S AREA)	Negative	Negative	GURLEVO (See MOLOSKO-VITSY)		
BEREZOVKA (See DYATLOVO)			GUSEV	Negative	Confirmed
BERINGOVSKIY	Negative	Negative	GVARDEYSK	Negative	Confirmed
BOLEKHOV (See DOLINA)			HIUMAA ISLAND	Negative	Negative
BORKHOV (See GOMEL')			IECAVA (See JELGAVA)		
BORKOVICH (See DISNA)			IRKUTSK	Negative	Negative
BORSHCHEV	Negative	Confirmed	ITATKA	Confirmed	Negative
BREST	Negative	Confirmed	IUL'TIN	Negative	Negative
BRODY	Negative	Confirmed	IVANOVO (See PINSK)		
BULZHINO	Negative	Undetermined	JELGAVA	Negative	Confirmed
BYTEN (See SLONIM)			JONAVA	Negative	Confirmed
CHAADAYEVKA	Undetermined	Undetermined	KAMENETS PODOL'SKIY	Negative	Confirmed
CHAPAYEVKA	Negative	Negative	KAMENNY MOST' (See PER-VOMAYSK)		
CHAPAYEVSK	Negative	Negative	KAMYSHIN	Negative	Negative
CHELKAR	Negative	Confirmed	KANDAGACH	Doubtful	Doubtful
		R & D	KANDALAKSHA	Negative	Doubtful
CHEREPOVETS	Negative	Negative	KAPUSTIN YAR	Negative	Confirmed
CHERNOMORSKOYE ^{3/}	Negative	Negative	KARABABAU (See SARY OZEK)		
CHITA (See DROVYANAYA)			KARANGIT ^{6/}	Negative	Negative
CHKALOV (See ORENBURG)			KARKARALINSK	Negative	Negative
DAUGAVPILS	Negative	Negative	KARMELAVA (See JONAVA)		
DELYATIN	Negative	Negative	KEDAINAI	Negative	Negative
DERAZHNYA	Negative	Confirmed	KHAAPSALU (See RISTI)		
DISNA	Negative	Confirmed	KHABAROVSK (See ANASTAS'YEVKA)		
DOBROVODY (See UMAN')			KHASHURI	Negative	Negative
DOLINA	Negative	Confirmed	KHMELNITSKIY (See DERAZHNYA)		
DOLON'	Negative	Negative	KHVALINSK	Negative	Negative
DONOK	Negative	Negative	KHYROV	Negative	Undetermined
			KIEV	Negative	Negative

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
KILDIN ISLAND (See STARYY KILDIN)			MONTYGINO	Negative	Negative
KINESHMA	Negative	Negative	MOTOL (See PINSK)		
KIRENSK	Doubtful	Negative	MOZHAYSK	Negative	Negative
KIVERTSY	Negative	Confirmed	MUKACHEVO	Negative	Confirmed
KLAIPEDA	Negative	Doubtful	MURMANSK	Negative	Doubtful
KLESOV (See SARNY)			NADVORNAYA	Negative	Confirmed
KOLGOMPYA	Negative	Negative	NAKHODKA (See RYURIK)		
KONKOVICHI	Negative	Confirmed	NENOKSA'	Negative	Negative
KOROSTEN	Negative	Confirmed	NIGRANDE 6/	Negative	Confirmed
KOSE (See TALLINN)			NIZHNYAYA SALDA (See VERKHNYAYA SALDA)		
KOSTROMA	Confirmed	Negative	NIZHNYAYA TURA (See VERKHNYAYA SALDA)		
KOZELSK	Confirmed	Negative	NORIL'SK	Negative	Negative
KOZHANOVICHI	Negative	Confirmed	NOVAYA MEZINOVKA	Negative	Negative
KOZYANY (See POSTAVY)			NOVITSKOYE (See SUCHAN)		
KRASKINO	Negative	Confirmed	NOVOLITOVSK (See SUCHAN)		
KRASNOARMEYSKOYE (See SARATOV/ENGEL'S AREA)			NOVOSIBIRSK	Confirmed	Negative
KRASNOYARSK (See GLADKAYA)			NOVOSYSOYEVKA	Negative	Confirmed
KRASNOZNAMENSK	Negative	Confirmed	NOVOVES (See NADVORNAYA)		
KREMOVO	Negative	Negative	NYANDOMA	Undetermined	Undetermined
KRISTANOPOL (See SOKAL')			OBOZERSKAYA	Negative	Negative
KROLEVETS	Negative	Confirmed	OLEN'YA AREA	Negative	Undetermined
KRUPA (See RUZHANY)			OLEVSK (See BEL-OKOROVICHI)		
KULDIGA AREA	Negative	Negative	OL'GOPOL' (See BALTA)		
KUNGUR (See PERM')			OMSK	Confirmed	Negative
KURDZHIPSKAYA (See MAYKOP)			ORENBURG	Negative	Negative
KURGANCHA	Negative	Confirmed	OSTROG	Negative	Confirmed
KURITICHI (See PETRIKOV)			OSTROV	Negative	Confirmed
KURMENI (See MARCIANA/MADONA)			OTAR	Negative	Negative
KYSHTYM	Negative	Negative	OTYNYA (See NADVORNAYA)		
LEBEDIN	Negative	Confirmed	OVRUCH (See USOVO)		
LEJASCIEMS (See ALUKSNE)			PAPLAKA	Negative	Confirmed
LIDA	Negative	Confirmed	PARYSHCHE (See NADVORNAYA)		
LIELEJA (See ZAGARE)			PENZA (See CHAADA-YEVKA)		
LIPNIKI (See USOVO)			PERM	Confirmed	Negative
LUTSK	Negative	Confirmed	PERVOMAYSK	Negative	Confirmed
L'VOV	Negative	Negative	PETRIKOV (See KONKOVICHI)		
LYALICHI (See KREMOVO)			PEVEK	Negative	Negative
MAKAT	Negative	Confirmed R & D	PILTENE (See KULDIGA AREA)		
MALAYA SAZANKA	Negative	Negative	PINSK	Negative	Confirmed
MANKOVKA (See UMAN')			PLESETSK	Confirmed	Negative
MARCIANA/MADONA AREA	Negative	Undetermined	POCHINOK	Negative	Negative
MARINA GORKA	Negative	Confirmed	PODPOLOZ'YE	Negative	Undetermined
MAYKOP	Negative	Confirmed	POLOTSK	Negative	Confirmed
MEDENITSA (See DROGOBYCH)			POLTAVA	Negative	Negative
MEDVED	Negative	Negative	POL'YARNYY URAL	Negative	Negative
MOLODETSKOYE (See UMAN')			POSTAVY	Negative	Confirmed
MOLOSKOVITSY	Negative	Confirmed	PROKHORY (See SPASSK DAL'NYY)		

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
PROVIDENYA	Negative	Doubtful	SOVETSKAYA GAVAN AREA ^{10/}	Negative	Negative
PRUZHANY	Negative	Confirmed	SPASSK-DAL'NYY	Negative	Negative
RAGNIT (See KRASNOZNA-MENSK)			STALINABAD	Negative	Negative
RAKVERE	Negative	Confirmed	STARYY KILDIN ^{11/}	Negative	Negative
RECHITSA (See DUBROVO)			STRYY (See DROGOBYCH)		
REDKINO (See OSTROV)			SUCHAN	Negative	Confirmed
RISTI	Negative	Confirmed	SUDAK	Negative	Negative
ROZHDESTVENKA	Negative	Confirmed	SUOVATIKHA	Negative	Negative
RUDNYA ZLOTINSKAYA (See BELOKOROVICH)			SVALYA VA AREA	Negative	Possible
RUSKI (See ALUKSNE)			SVERDLOVSK	Negative	Negative
RUZHANY	Negative	Confirmed	SVOBODNYY	Confirmed	Negative
RYURIK ^{12/}	Negative	Negative	TALLINN	Negative	Negative
SAAREMAA ISLAND	Negative	Negative	TAMBOV	Negative	Negative
SALANTAI (See SATEIKIAI)			TASHARA	Negative	Negative
SALEKHARD	Negative	Negative	TASHKENT	Negative	Negative
SAMLAND PENINSULA	Negative	Negative	TAURAGE	Negative	Confirmed
SARATOV/ENGEL'S AREA	Negative	Negative	TAYBOLA	Negative	Confirmed
SARNY	Negative	Doubtful	TEYKOVO	Confirmed	Negative
SAROVA	Negative	Negative	TIKSI	Negative	Negative
SARY OZEK	Negative	Confirmed	TOMSK (See ITATKA)		
SARY SHAGAN ^{8/}	Negative	Negative	TOROPETS	Negative	Negative
SATEIKIAI	Negative	Confirmed	TORVA	Negative	Confirmed
SEME NOVKA (See PERVOMAYSK)			TROSTYANETS (See KIVERTSY)		
SEMPALATINSK	Negative	Negative	TSIRGULIINA (See TORVA)		
SERGACH	Negative	Negative	TUAPSE	Negative	Negative
SEVASTOPOL ^{9/}	Negative	Negative	TUKUMS	Negative	Negative
SEVERNYY SUCHAN (See SUCHAN)			TYM (See KURGANCH)		
SHADRINSK	Confirmed	Negative	TYUMEN'	Confirmed	Negative
SHAGAN (See DOLON)			TYURA TAM	Confirmed	Negative
SHEPETOVKA (See OSTROG)			UFA	R & D	
SHESTOVO	Negative	Possible	UGOL'NYE KOPI ^{12/}	Doubtful	Negative
SHEVELEVO (See OSTROV)			UKMERGE	Negative	Confirmed
SHIKHANY	Negative	Negative	UKRAINA	Negative	Negative
SHIRVANSKAYA (See MAYKOP)			ULAN UDE	Negative	Negative
SHISHCHITSY (See GRESK)			UMAN'	Negative	Confirmed
SIMUNA (See RAKVERE)			URECH'YE	Negative	Confirmed
SKALA-PODOL'SKAYA (See BORSHCHEV)			USOVO	Negative	Confirmed
SKRUNDA (See NIGRANDE)			USSURISK VOZDVI-ZHENKA	Negative	Negative
SLAVSK (See SOVETSK)			UST'-UKHTA	Negative	Negative
SLAVYANKA (See KRASKINO)			UZHGOROD	Negative	Undetermined
SLITERE (See KULDIGA AREA)			VAIKE MAARJA (See RAKVERE)		
SLONIM	Negative	Confirmed	VALDAY	Negative	Negative
SMORGON	Negative	Confirmed	VERKHNYAYA SALDA	Confirmed	Negative
SOFIYA ALEKSEYEVKA (See BARANO-ORENBURG-SKOYE)			VEPRIAI (See UKMERGE)		
SOKAL'	Negative	Confirmed	VIESVILLE (See KRASNOZNAMENSK)		
SOLY (See SMORGON)			VINNIKI (See L'VOV)		
SOVETSK			VINNITSA (See ZHMERINKA)		
			VLADIMAR VOLYNSKIY (See LUTSK)		
			VLADIVOSTOK	Negative	Negative
			VOLKOVYISK	Negative	Negative
			VOLODARSK	Undetermined	Undetermined
			VOLOGDA/SOKOL	Negative	Negative
			VOLOVETS (See SVALYA VA)		

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
VORKUTA	Negative	Negative	YUR'YA	Confirmed	Negative
VORU	Negative	Confirmed	YURYUZAN	Negative	Negative
VSELYUB	Negative	Confirmed	ZAGARE	Negative	Confirmed
YAKUTSK	Negative	Negative	ZBLYANY (See DYATLOVO)		
YASVA (See VERKHNYAYA SALDA)			ZELKI (See DISNA)		
YATSUKI (See DYATLOVO)			ZEMAICIU KALVARIJA (See SATEIKAI)		
YEDROVO	Confirmed	Negative	ZHEREBKOV (See BALTA)		
YEKATERINOVKA (See SUCHAN)			ZHITOMIR	Negative	Confirmed
YEL'SK	Negative	Confirmed	ZHMERINKA	Negative	Confirmed
YEVPAORIYA ^{13/}	Negative	Negative	ZNAMENSK	Negative	Confirmed
YOSHKAR-OLA	Confirmed	Negative			

1/ Confirmed cruise missile facility.

2/ ASM Test Range.

3/ Cruise missile site.

4/ Missile-related R & D facility

5/ Possible cruise missile facility

6/ Possible cruise missile launch site.

7/ Cruise missile launch site.

8/ ABM R & D facility.

9/ Cruise missile launch site.

10/ MRBM firings confirmed - no fixed sites in ☐ photog-
raphy.

11/ Two cruise missile launch sites.

12/ Referred to as Ugolnyy in some documents. Since
Beringovskiy was formerly known as Ugolnyy, the
DWG has selected Ugolnyy Kopi as the correct place
name for this MRBM/IRBM site.

13/ Space tracking facility.

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